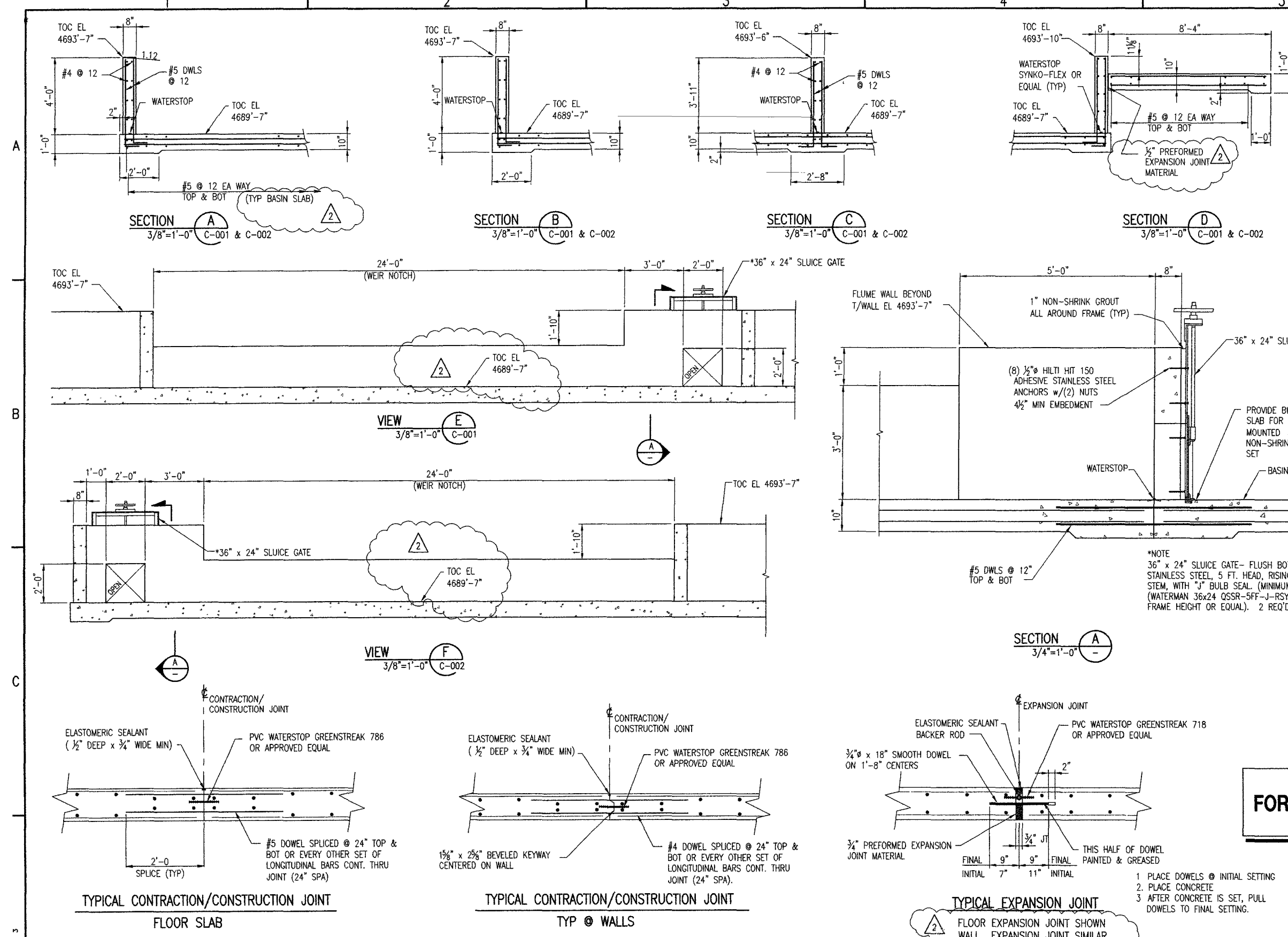



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ANCHOR BOLTS									
MARK	QTY	TYPE	LENGTH	d	W	R	THD	NUTS	REMARKS
AB-1	64	N	2'-0"	7/8"			3	64	C-001 & C-002

SLEEVES									
MARK	QTY	TYPE	LENGTH	d	W	R	THD	NUTS	REMARKS
AB-1	64	N	2'-0"	7/8"			3	64	C-001 & C-002

APPROVED FOR CONSTRUCTION
8-16-02



Salt Lake City, Utah

TITLE

**INTERMOUNTAIN POWER
HELPER COOLING BASIN
CONCRETE SECTIONS AND DETAILS**

FOR INTERMOUNTAIN POWER

SCALE 3/8"=1'-0" JOB NO E01239 DRAWING NO D-01239-C-003 REV 2

DELTA, UTAH



A

- B

C |

08/15/02 13:32
Filename: D-01239--C-005.dwg Arc: 5 Rev: 1

**APPROVED
FOR CONSTRUCTION**
8-16-02

8-15-01
No. 160172
GLENN C. BARTON
STATE OF UTAH

- ## GENERAL MASONRY NOTES

-
- 8-15-01
No. 160172
GLENN C. BARTON
STATE OF UTAH

REVISIONS						REFERENCE DRAWINGS		ISSUE RECORD				ENGR RECORD			CURRENT DRAWING			
NO	DESCRIPTION	DATE	BY	CHK	APP	DRAWING NO	TITLE	DATE	ISS	REV	TO	FOR	DRAWN	BY	DATE	STATUS	BY	DATE
1	ADD NOTE 24 TO GENERAL STEEL NOTES	5-28-02	GLT	DRS	GB			5-15-02	1	0	CLIENT	CONSTRUCTION	DRAWN	GLT	3-14-02	PRELIMINARY OR PLANNING		
2								6-04-02	2	1	CLIENT	FOR BID	ELEC. CHECK			APPROVED FOR FINAL DESIGN		
3								8-16-02	3	1	CLIENT	CONSTRUCTION	INST. CHECK			IN FINAL DESIGN		
4													MECH. CHECK					
5													PIPING CHECK					
6													PROCESS CHECK					
7													STRUCT. CHECK	DRS	5-14-02	APPROVED FOR QUOTE/PURCH		
8													LEAD ENG./DES.	GB	5-14-02			
9													DISCIPLINE MGR	GB	5-14-02	APPROVED FOR CONSTRUCTION	TD	5-14-02
10													CONST. REVIEW					
11													PROJECT ENG					
12													CLIENT APPROVAL					

5-15-02

No. 160172

GLENN G. BARTON

STATE OF UTAH

Centry

CONSTRUCTORS & ENGINEERS

Salt Lake City, Utah

TITLE

INTERMOUNTAIN POWER
HELPER COOLING TOWER BASIN
CONCRETE AND STEEL GENERAL NOTES

FOR INTERMOUNTAIN POWER

DELTA, UTAH

SCALE

JOB NO

DRAWING NO

REV

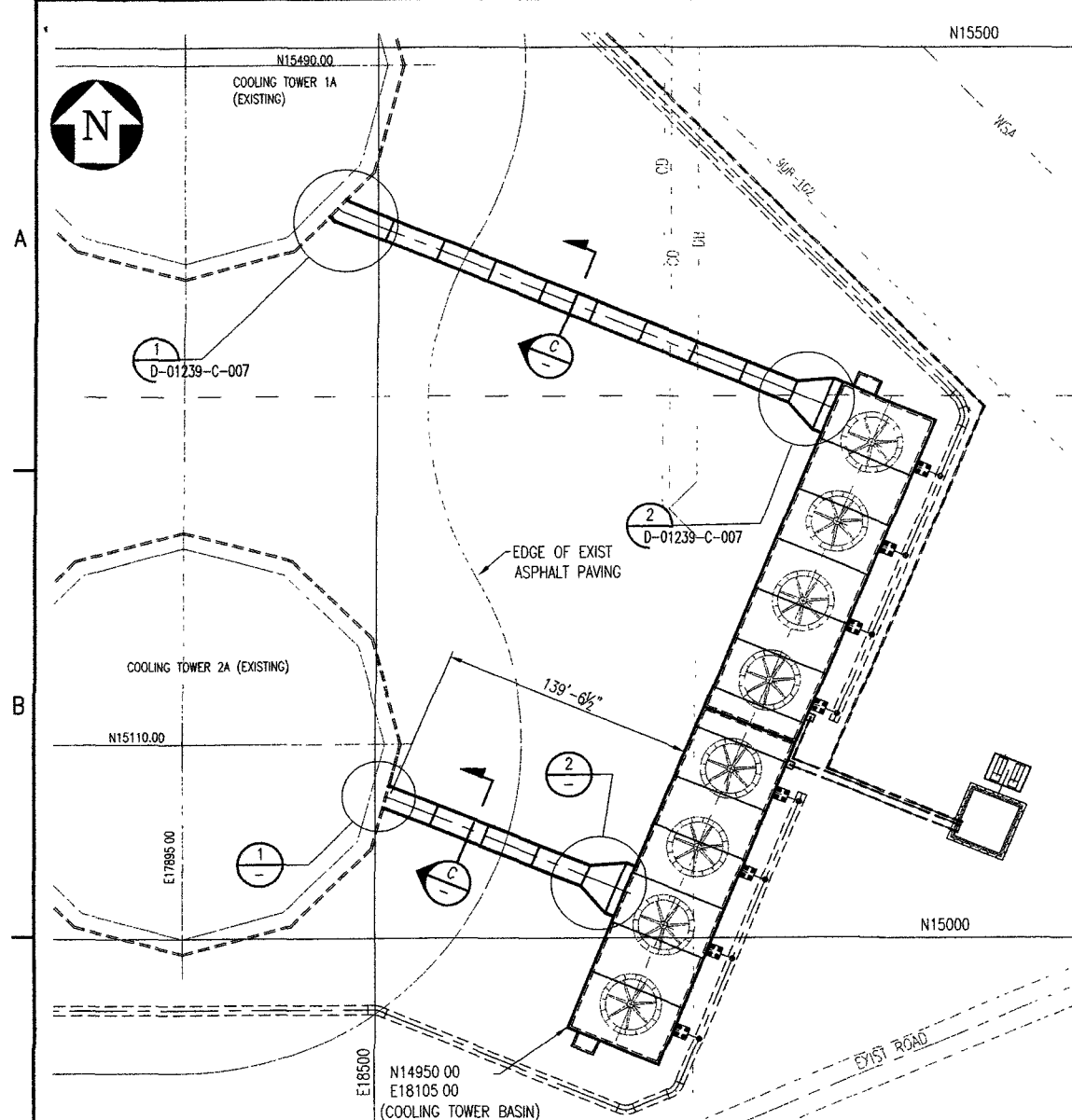
E01239

D-01239-C-005

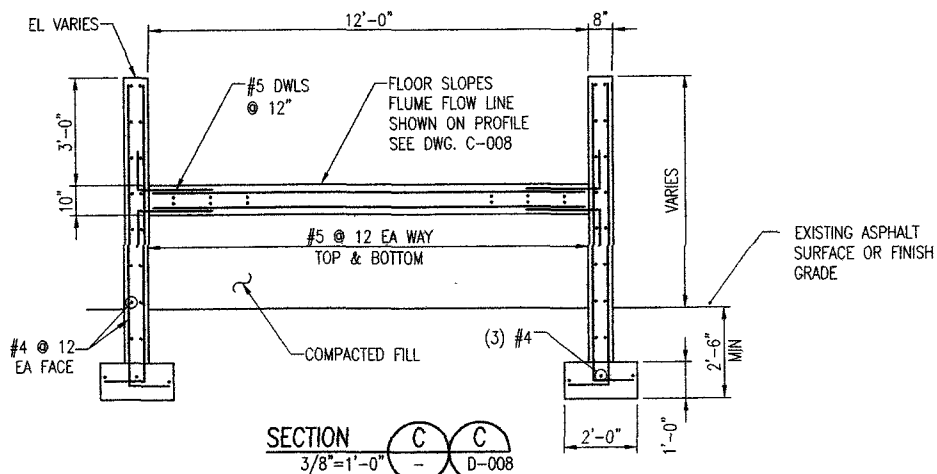
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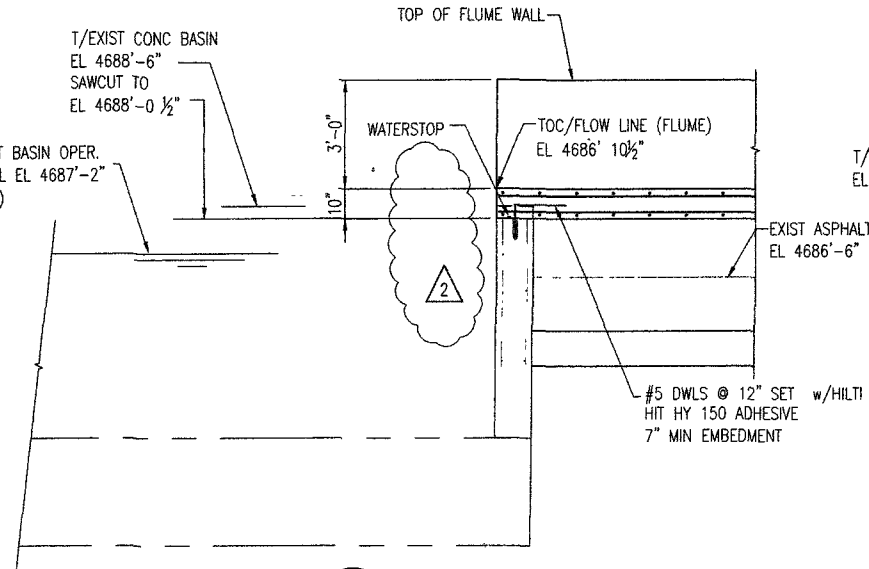
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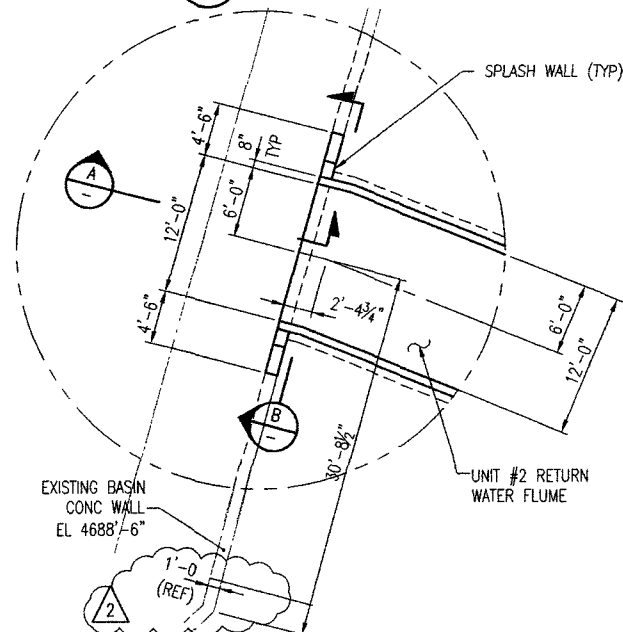
PLAN



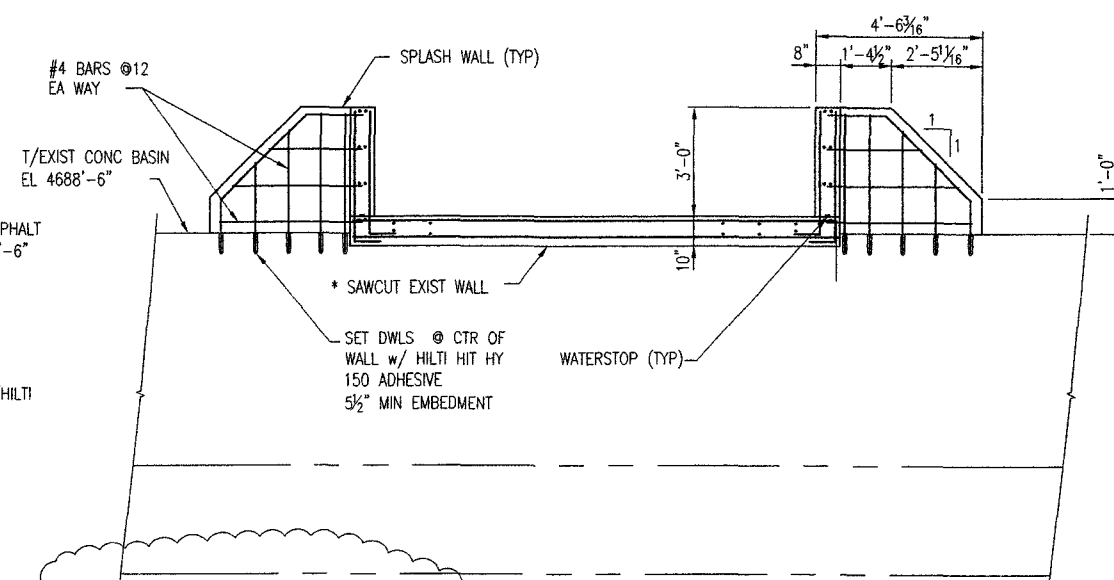
SECTION C-C
3/8"=1'-0"



SECTION A-A
3/8"=1'-0"

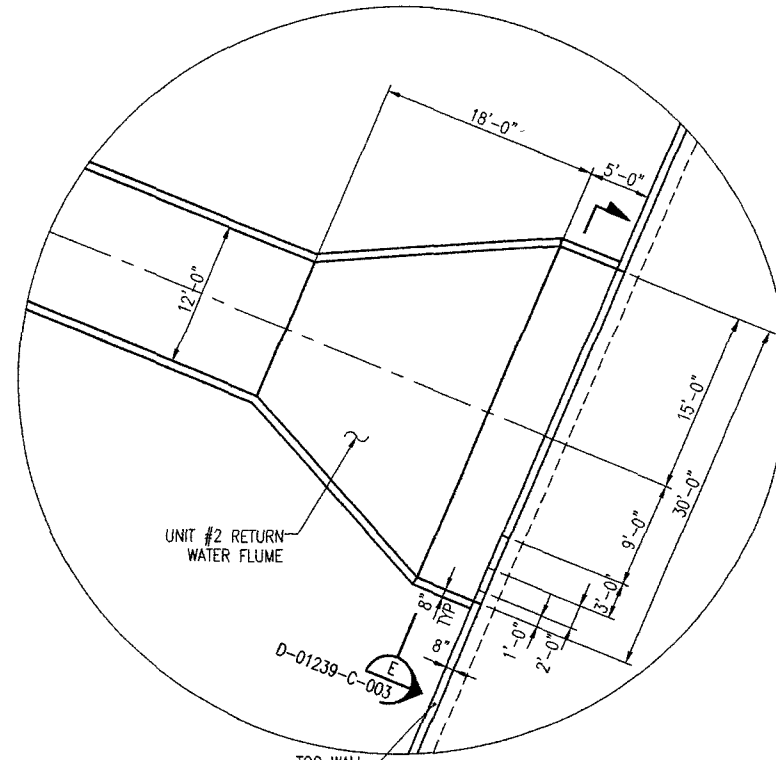


DETAIL 1
3/8"=1'-0"



SECTION B-B
3/8"=1'-0"

* CONTRACTOR SHALL NOT OVERCUT EXISTING WALL HORIZONTALLY OR VERTICALLY CUT PLAN TO BE APPROVED BY OWNER'S REPRESENTATIVE.

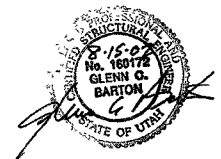


DETAIL 2
3/8"=1'-0"

APPROVED FOR CONSTRUCTION
8-16-02

- NOTES:
1. FOR GENERAL CONCRETE NOTES, SEE DWG D-01239-C-005.
 2. PROVIDE WATERSTOP PER NOTE 2, DWG D-01239-C-005 @ ALL JOINTS THAT INTERFACE WITH WATER TRANSMISSION.
 3. FOR COORDINATES SEE DWG D-01239-CV-003.

REVISIONS					REFERENCE DRAWINGS					ISSUE RECORD					ENGR RECORD					CURRENT DRAWING STATUS				
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1	UP DATE PLAN	5-18-02	GLT	DRS	GB	D-01239-CV-002	PIPE PROFILES & DETAILS	5-15-02	1	0	CLIENT	CONSTRUCTION			GLT	3-19-02								
2	ADD NOTE & DIMENSION, REMOVE SEC MARK	6-7-02	GLT	DRS	GB	D-01239-CV-003	SITE GRADING AND PAVING PLAN	6-04-02	2	12	CLIENT	FOR BID												
3						D-01239-C-001	COOLING TOWER BASIN CONC PLAN SHT 1	8-16-02	3	2	CLIENT	CONSTRUCTION												
4						D-01239-C-002	COOLING TOWER BASIN CONC PLAN SHT 2																	
5						D-01239-CV-004	SITE GRADING SECTIONS AND DETAILS																	

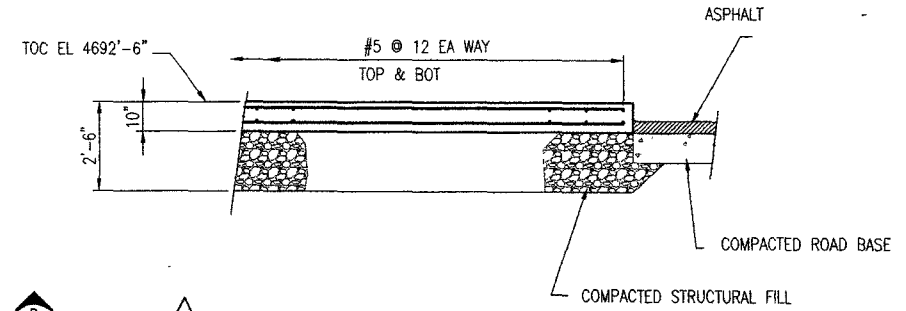
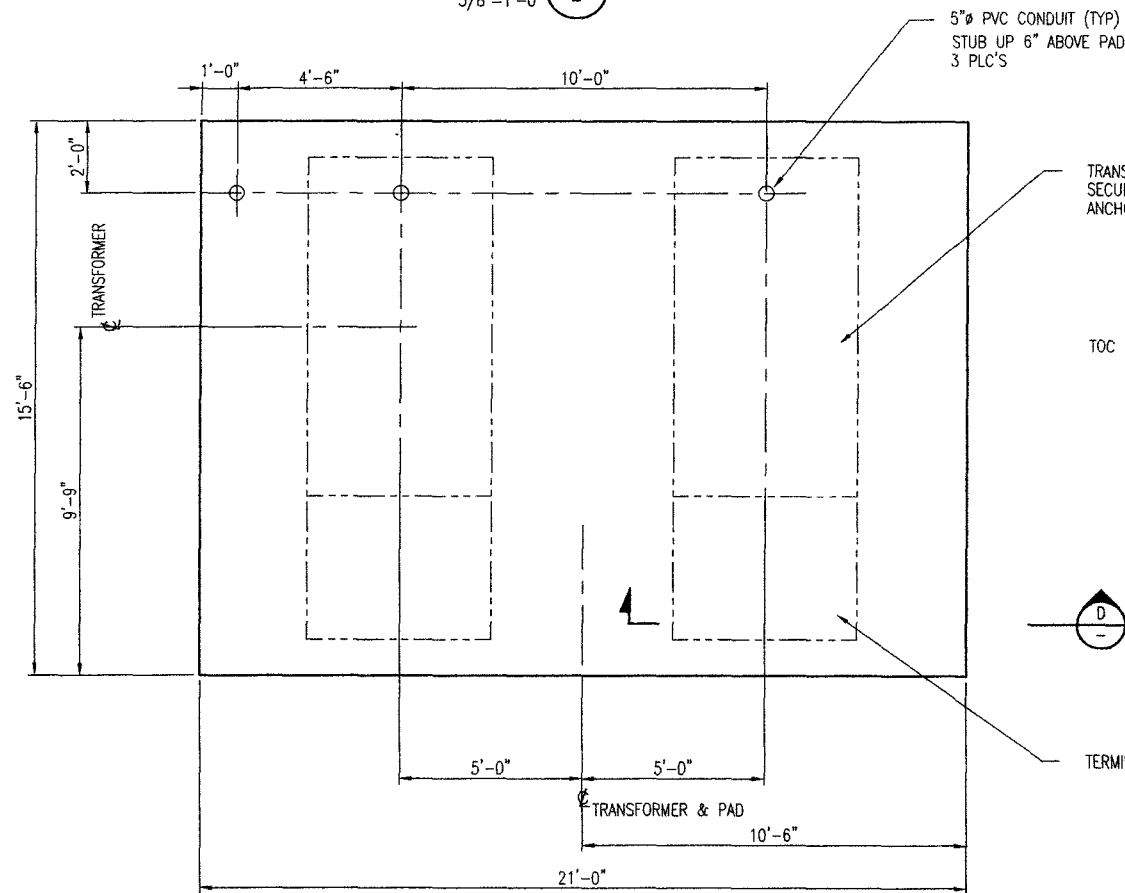
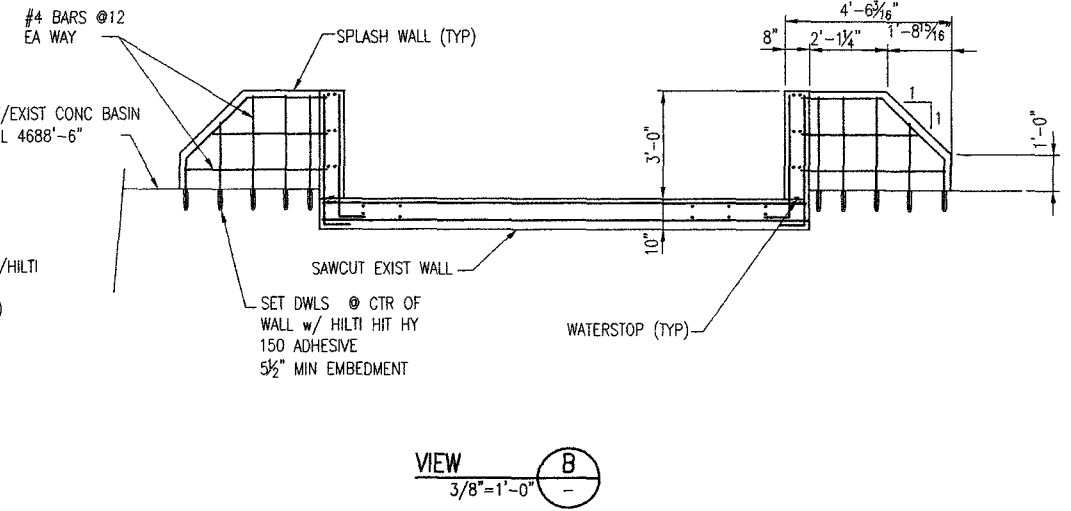
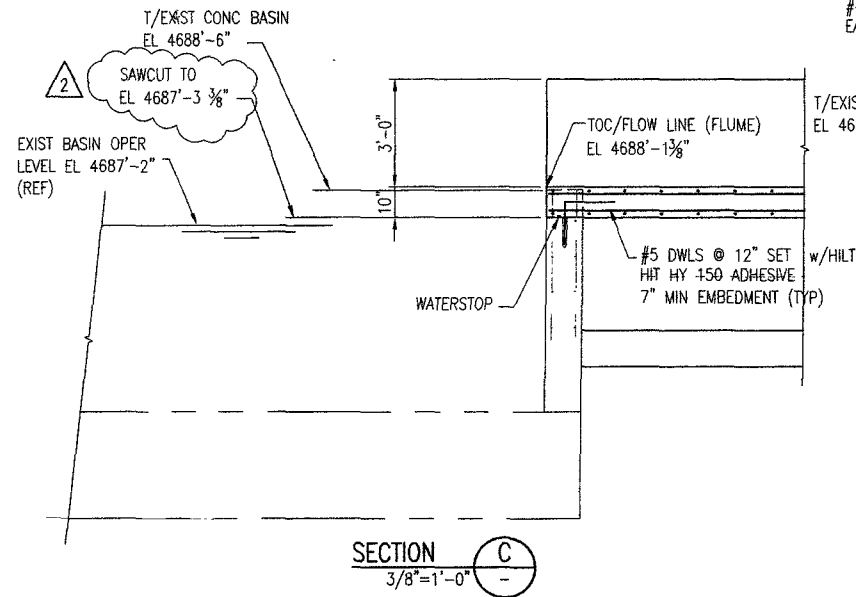
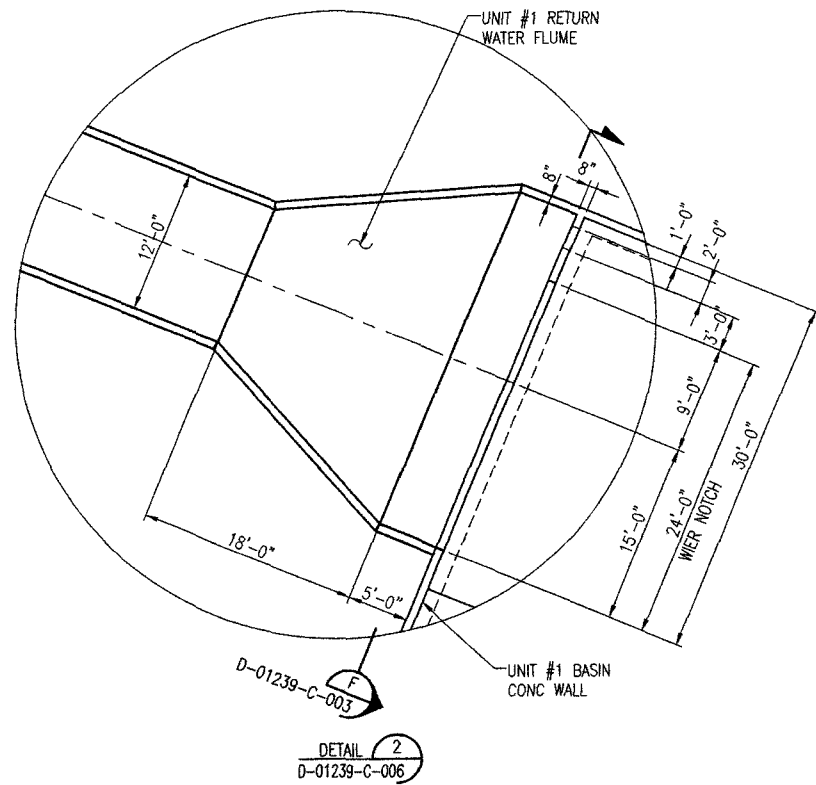
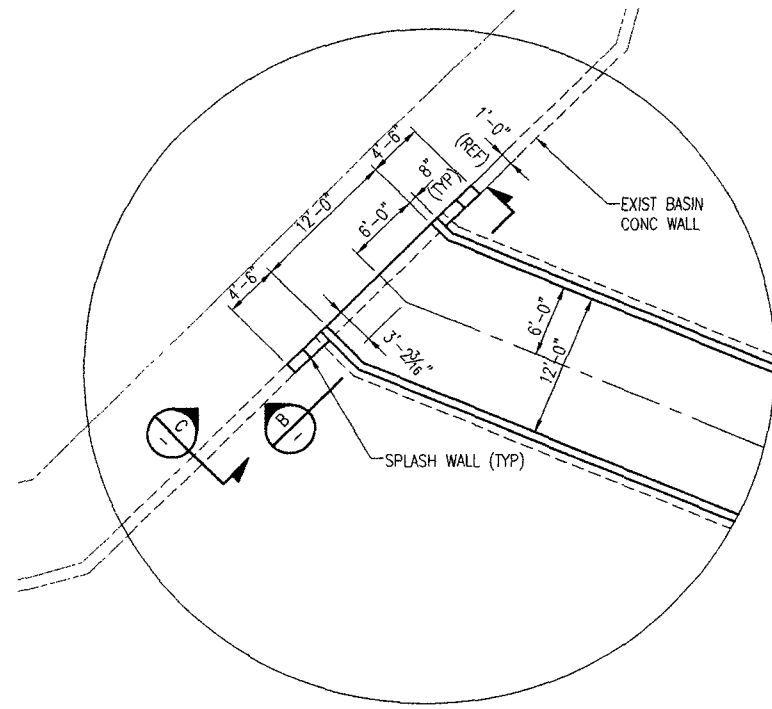


Centry
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Salt Lake City, Utah

**INTERMOUNTAIN POWER
HELPER COOLING BASIN RETURN FLUMES
CONCRETE PLAN AND DETAILS**

FOR INTERMOUNTAIN POWER
SCALE 1"=100'
JOB NO E01239
DRAWING NO D-01239-C-006
DELTA, UTAH
REV 2

06/15/02 13:35
Filename: D-01239-C-007.dwg Arc: 2
CE22x34etd



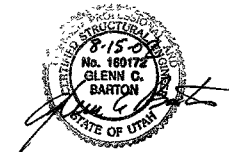
TRANSFORMER PAD PLAN

FOR LOCATION AND ORIENTATION
SEE DWG D-01239-CV-003

**APPROVED
FOR CONSTRUCTION**
8-16-02

- NOTES:
1. FOR GENERAL CONCRETE NOTES, SEE DWG D-01239-C-005.
 2. PROVIDE WATERSTOP PER NOTE 2, DWG D-01239-C-005 @ ALL JOINTS THAT INTERFACE WITH WATER TRANSMISSION.
 3. FOR COORDINATES SEE DWG D-01239-CV-003.

REVISIONS						REFERENCE DRAWINGS				ISSUE RECORD				ENGR RECORD			CURRENT DRAWING STATUS		
NO	DESCRIPTION	DATE	BY	CHK	APP	DRAWING NO	TITLE	DATE	ISS	REV	TO	FOR		BY	DATE		BY	DATE	
1	ADD TRANSFORMER PAD	5-28-02	GLT	DRS	GB	D-01239-CV-002	PIPE PROFILES & DETAILS	5-15-02	1	0	CLIENT	CONSTRUCTION	DRAWN	FEE	05-02-02	PRELIMINARY OR PLANNING			
2	REVISE ELEVATION	7-10-02	GLT	DRS	GB	D-01239-CV-003	SITE GRADING AND PAVING PLAN	8-16-02	2	2	CLIENT	CONSTRUCTION	ELEC. CHECK			APPROVED FOR FINAL DESIGN			
3						D-01239-C-001	COOLING TOWER BASIN CONC. PLAN SHT 1						INST. CHECK			IN FINAL DESIGN			
4						D-01239-C-002	COOLING TOWER BASIN CONC. PLAN SHT 2						MECH. CHECK						
5						D-01239-CV-004	SITE GRADING SECTIONS AND DETAILS						PIPING CHECK						
6													PROCESS CHECK						
7													STRUCT. CHECK	DRS	5-14-02	APPROVED FOR QUOTE/PURCH			
8													LEAD ENG./DES.	GB	5-14-02	APPROVED FOR CONSTRUCTION	TD	5-14-02	
9													DISCIPLINE MGR.	GB	5-14-02				
10													CONST. REVIEW						
11													PROJECT ENG.						
12													CLIENT APPROVAL						

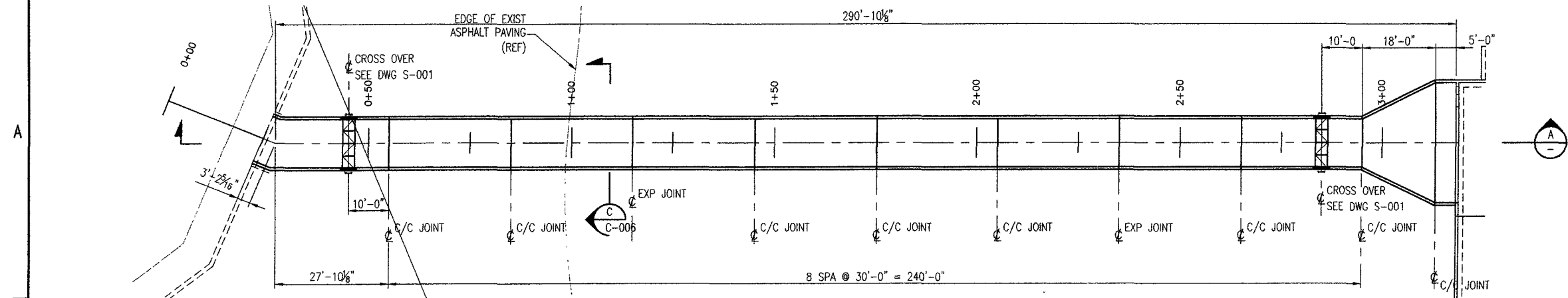


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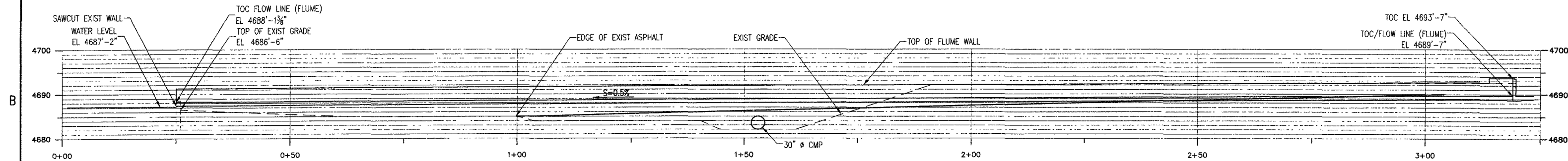
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FOR INTERMOUNTAIN POWER				DELTA, UTAH			
SCALE 1"=100'	JOB NO E01239	DRAWING NO D-01239-C-007	REV 2				

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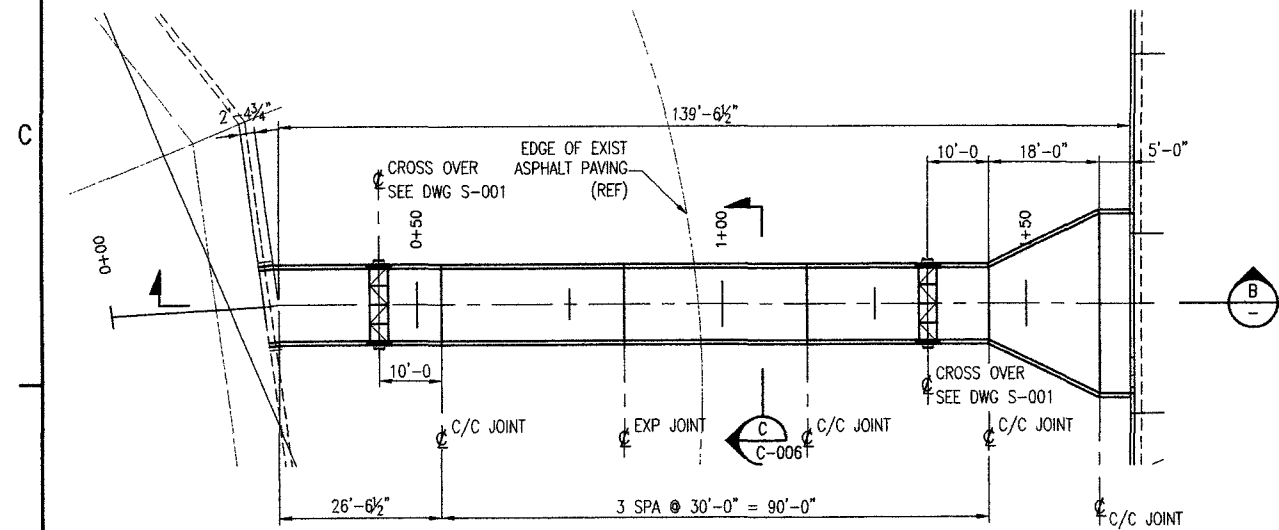


WATER FLUME PLAN: UNIT #1

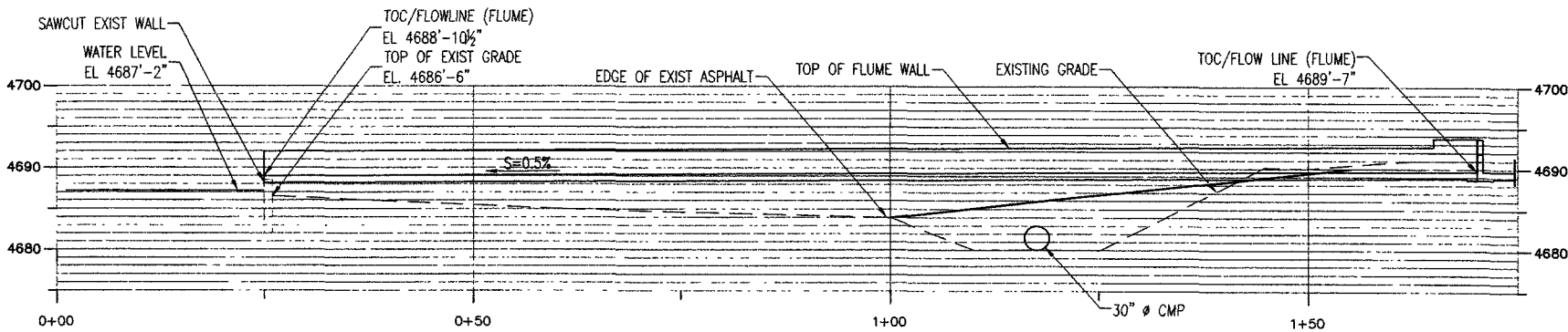


SECTION A

APPROVED
FOR CONSTRUCTION
8-16-02



WATER FLUME PLAN: UNIT #2



SECTION B

- NOTES:
1. FOR GENERAL NOTES SEE DWG D-01239-C-005.
 2. EXP JOINT DENOTES EXPANSION JOINT.
C/C JOINT DENOTES CONTRACTION/CONSTRUCTION JOINT. SEE TYPICAL DETAILS ON DWG D-01239-C-003.
 3. FOR COORDINATES SEE DWG D-01239-CV-003.

REVISIONS						REFERENCE DRAWINGS				ISSUE RECORD				ENGR RECORD			CURRENT DRAWING		
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1						9255-9STF-S3014	SITE FINISHING PLAN/COOLING TOWER AREA	5-15-02	1	0	CLIENT	CONSTRUCTION	DRAWN	FEE	05-02-02	PRELIMINARY OR PLANNING			
2						D-01239-C-006	RETURN FLUMES CONCRETE PLANS & DETAILS	8-16-02	2	0	CLIENT	CONSTRUCTION	ELEC. CHECK			APPROVED FOR FINAL DESIGN			
3													INST. CHECK			IN FINAL DESIGN			
4													MECH. CHECK						
5													PIPING CHECK						
6													PROCESS CHECK						
7													STRUCT. CHECK	DRS	5-14-02	APPROVED FOR QUOTE/PURCH			
8													LEAD ENG./DES.	GB	8-14-02				
9													DISCIPLINE MGR.	GB	4-15-02	APPROVED FOR CONSTRUCTION			
10													CONST. REVIEW						
11													PROJECT ENG.						
12													CLIENT APPROVAL						



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Salt Lake City, Utah
CONSTRUCTORS & ENGINEERS

INTERMOUNTAIN POWER
HELPER COOLING TOWER BASIN
FLUME PLANS & PROFILES

FOR INTERMOUNTAIN POWER				DELTA, UTAH	
SCALE	JOB NO	DRAWING NO	REV		
	E01239	D-01239-C-008	0		

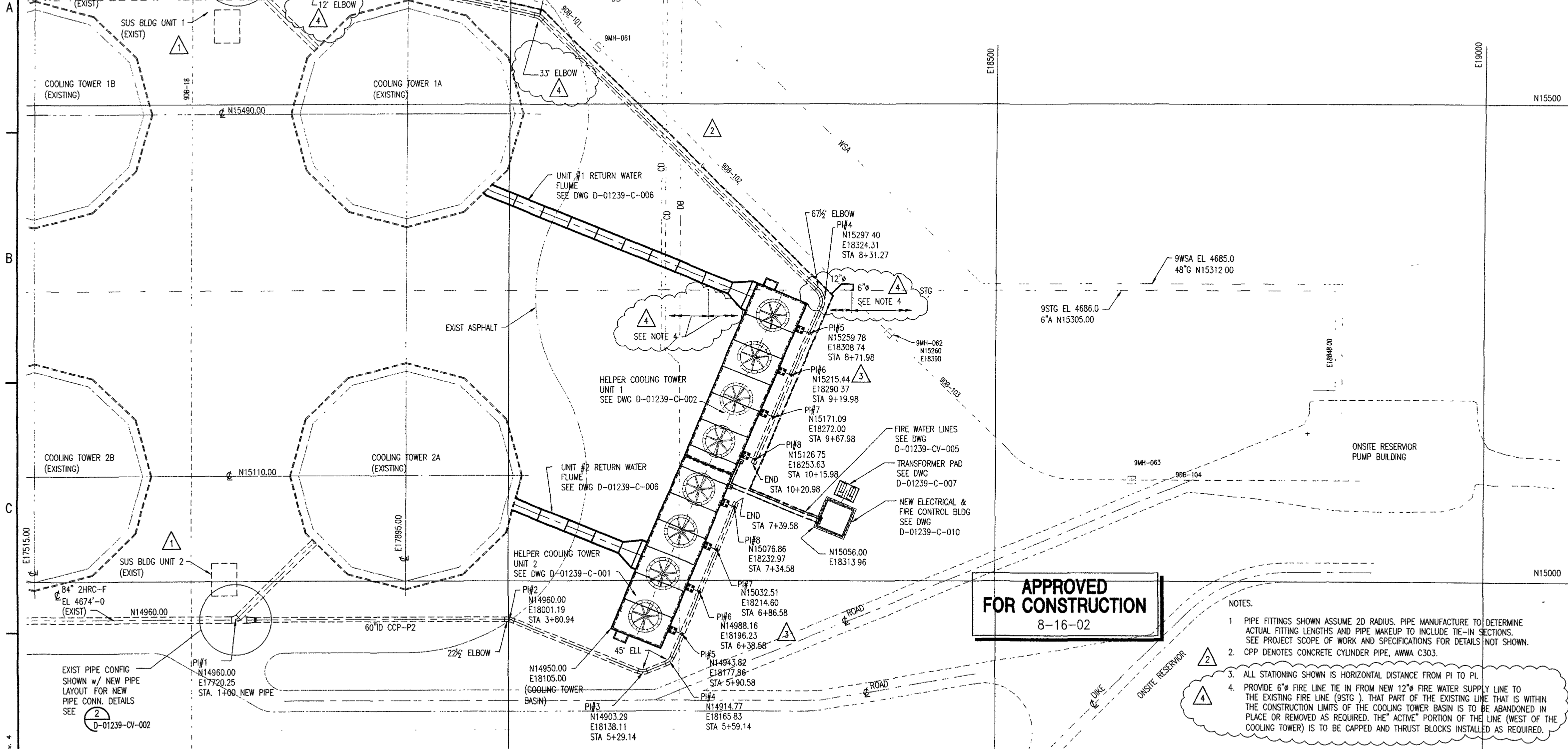
FOR INTERMOUNTAIN POWER		DELTA, U
SCALE	JOB NO E01239	DRAWING NO D-01239-C-010



EXIST PIPE CONFIG.
SHOWN w/ NEW PIPE
LAYOUT. FOR NEW PIPE
CONN DETAILS SEE

LEGEND (EXISTING UTILITIES)

--- DB ---	DIRECT BURIED COMMUNICATIONS CABLE & DESCRIPTION
--- CD ---	DIRECT BURIED LIGHTING CABLE DUCT (4' MIN DEPTH)
--- CPC-05 ---	CONSTRUCTION POWER CENTER
--- WSA ---	SURFACE WATER SUPPLY
--- STG ---	SITE FIRE PROTECTION



NOTES.

- PIPE FITTINGS SHOWN ASSUME 2D RADIUS. PIPE MANUFACTURE TO DETERMINE ACTUAL FITTING LENGTHS AND PIPE MAKEUP TO INCLUDE TIE-IN SECTIONS. SEE PROJECT SCOPE OF WORK AND SPECIFICATIONS FOR DETAILS NOT SHOWN.
- CPP DENOTES CONCRETE CYLINDER PIPE, AWWA C303.
- ALL STATIONING SHOWN IS HORIZONTAL DISTANCE FROM PI TO PL.
- PROVIDE 6" FIRE LINE TIE IN FROM NEW 12" FIRE WATER SUPPLY LINE TO THE EXISTING FIRE LINE (9STG). THAT PART OF THE EXISTING LINE THAT IS WITHIN THE CONSTRUCTION LIMITS OF THE COOLING TOWER BASIN IS TO BE ABANDONED IN PLACE OR REMOVED AS REQUIRED. THE "ACTIVE" PORTION OF THE LINE (WEST OF THE COOLING TOWER) IS TO BE CAPPED AND THRUST BLOCKS INSTALLED AS REQUIRED.

REVISIONS

REFERENCE DRAWINGS

ISSUE RECORD

ENGR RECORD

CURRENT DRAWING

NO	DESCRIPTION	DATE	BY	CHK	APP	DRAWING NO	TITLE	DATE	ISS	REV	TO	FOR
1	ADD SUS BLDGS	5-2-02	GLT	DRS	GB	D-01239-CV-002	PIPE PROFILES & DETAILS	4-22-02	1	0	CLIENT	PIPE BID
2	RELOCATE PIPELINE CCP-1, ADD FIRE	-	-	-	-	D-01239-CV-003	SITE GRADING AND PAVING PLAN	5-15-02	2	1	CLIENT	CONSTRUCTION
3	PROTECTION, REVISE SUS BLDG	5-28-02	GLT	DRS	GB	D-01239-C-001	COOLING TOWER BASIN CONC. PLAN SHT 1	6-04-02	3	2	CLIENT	BID
4	ADD COORDINATES @ PIPE RISERS	6-7-02	GLT	DRS	-	D-01239-C-002	COOLING TOWER BASIN CONC. PLAN SHT 2	8-16-02	4	4	CLIENT	CONSTRUCTION
5	ADD STATIONING & NOTE, REVISE ELBOWS	-	-	-	-	D-01239-CV-004	UNDERGROUND UTILITY PLAN AND DETAILS	-	-	-	-	-
6	ADD NOTE 4 & TIE 9STG TO NEW 12" LINE	8-14-02	GLT	TE	-	D-01239-CV-005	FIRE WATER SUPPLY PLAN & DETAILS	-	-	-	-	-



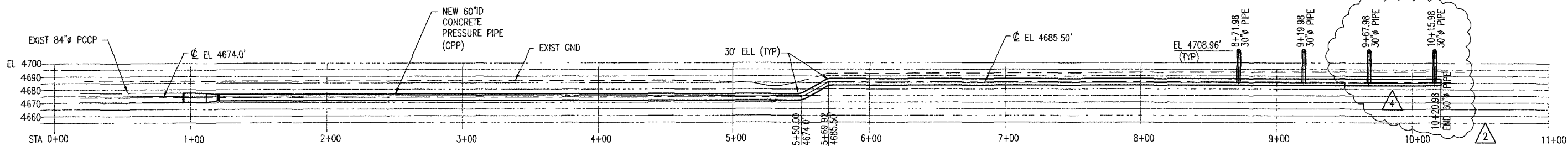
Centry
CONSTRUCTORS & ENGINEERS

Salt Lake City, Utah

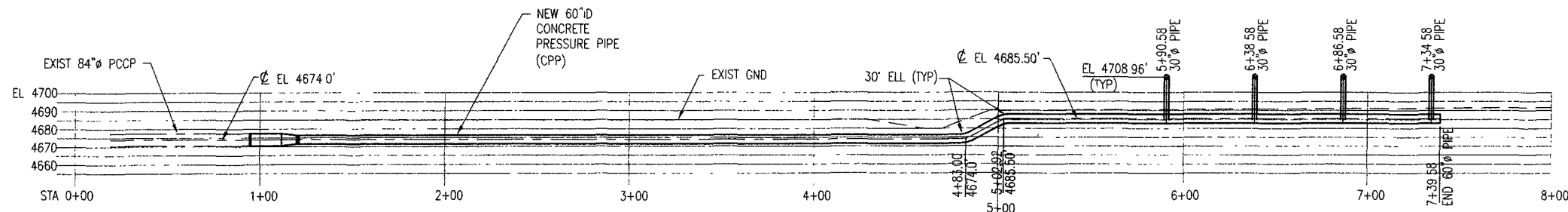
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FOR INTERMOUNTAIN POWER		DELTA, UTAH	
SCALE 1"=50'	JOB NO E01239	DRAWING NO D-01239-CV-001	REV 4

IP7_025028

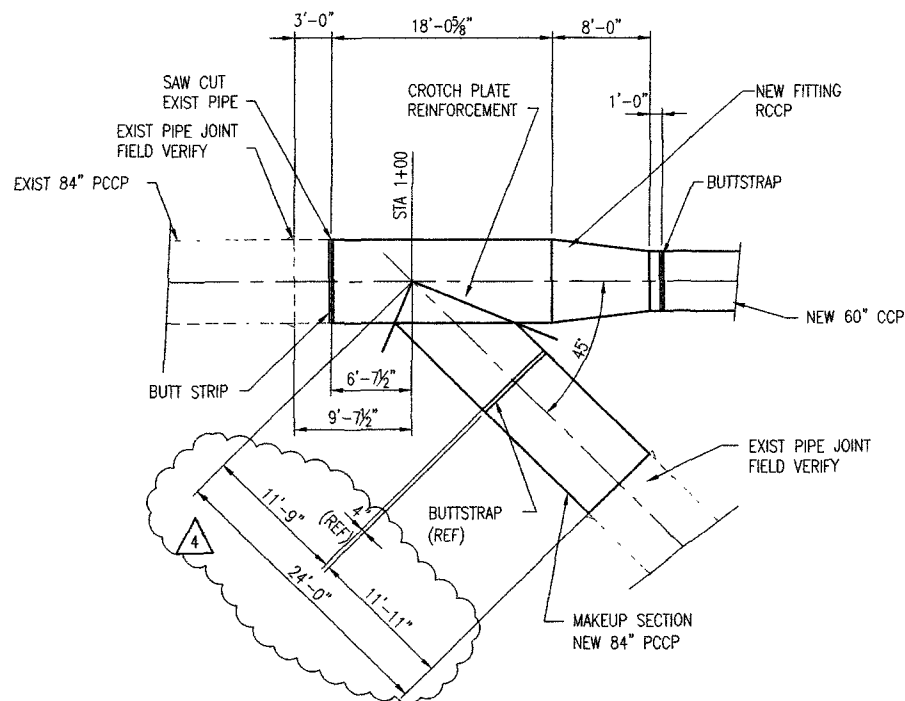
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CE22x34std



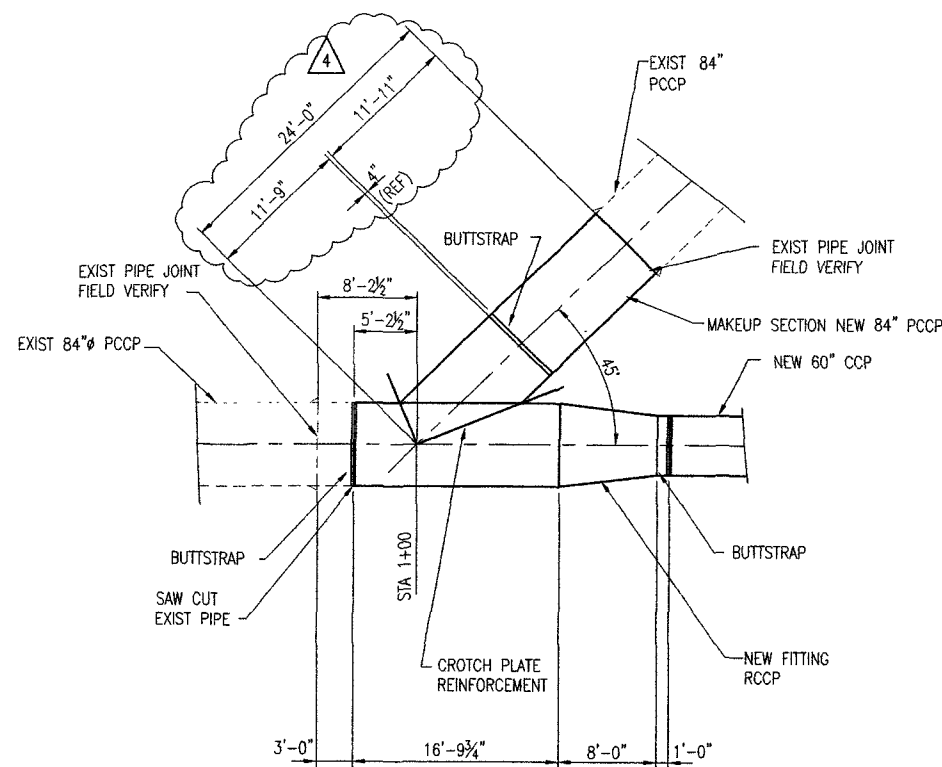
60" CCP-P1 PROFILE
(ALONG PIPE)
FOR PLAN SEE DWG
D-01239-CV-001



60" CCP-P2 PROFILE
(ALONG PIPE)
FOR PLAN SEE DWG
D-01239-CV-001



DETAIL 1
3/16"=1'-0" D-01239-CV-001



DETAIL 2
3/16"=1'-0" D-01239-CV-001

- NOTE:
1. RCCP = REINF. CONC. CYL. PIPE AWWA C300
 2. PCCP = PRESTR. CONC CYL. PIPE AWWA C301
 3. CCP = CONC. CYL. PIPE AWWA C303

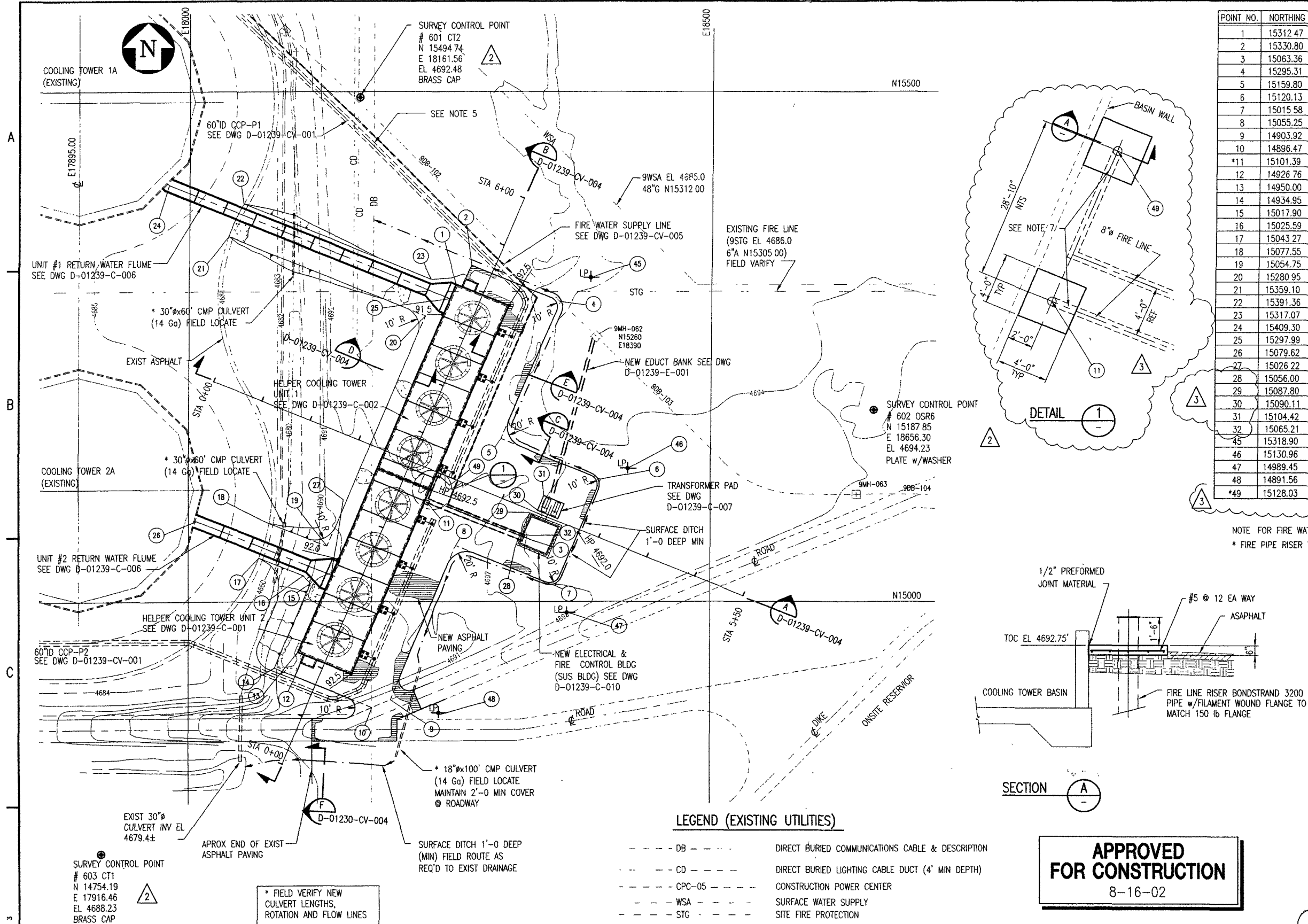
APPROVED
FOR CONSTRUCTION
8-16-02

- NOTE:
1. STATIONING SHOWN IS FOR PROFILE PURPOSES ONLY. ACTUAL LOCATIONS TO BE PER COORDINATES SHOWN ON DWG D-01239-CV-001.

REVISIONS						REFERENCE DRAWINGS		ISSUE RECORD				ENGR RECORD		CURRENT DRAWING	
NO	DESCRIPTION	DATE	BY	CHK	APP	DRAWING NO	TITLE	DATE	ISS	REV	TO	FOR	BY	DATE	STATUS
1	REVISE TITLE	5-14-02	GLT	DRS	GB	D-01239-CV-001	SITE PLAN	4-22-02	1	0	CLIENT	PIPE BID	GLT	3-14-02	PRELIMINARY OR PLANNING
2	REVISE TITLE, STATIONING, DET 1 & DET 2	5-28-02	GLT	DRS	GB	.	.	5-15-02	2	1	CLIENT	CONSTRUCTION	.	.	APPROVED FOR FINAL DESIGN
3	ADD NOTE	6-7-02	GLT	DRS	.	.	.	6-04-02	3	2	CLIENT	BID	.	.	IN FINAL DESIGN
4	REVISE TRANSITION DIMENSIONS	8-14-02	GLT	TE	.	.	.	8-16-02	4	4	CLIENT	CONSTRUCTION	.	.	APPROVED FOR QUOTE/PURCH
.	APPROVED FOR CONSTRUCTION
.	TO 5-14-02
.
.
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CEntry		Salt Lake City, Utah	
CONSTRUCTORS & ENGINEERS			
TITLE		INTERMOUNTAIN POWER HELPER COOLING TOWER PIPE PROFILES AND DETAILS	
FOR INTERMOUNTAIN POWER		DELTA, UTAH	
SCALE	JOB NO	DRAWING NO	REV
	E01239	D-01239-CV-002	4



POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	15312.47	18255.15	---	COR. COOLING TOWER BASIN (FACE OF WALL)
2	15330.80	18269.69	4692.00'	PI ASPHALT SURFACE
3	15063.36	18321.55	---	PI FIRE WATER LINE (SUS BLDG TO TOWER)
4	15295.31	18355.38	4692.00'	PI ASPHALT SURFACE
5	15159.80	18299.25	4692.00'	PI ASPHALT SURFACE
6	15120.13	18395.03	4691.50'	PI ASPHALT SURFACE
7	15015.58	18351.72	4691.50'	PI ASPHALT SURFACE
8	15055.25	18255.95	4692.00'	PI ASPHALT SURFACE
9	14903.92	18193.26	---	PI ASPHALT SURFACE (MATCH EXIST ROAD)
10	14896.47	18175.44	---	PI ASPHALT SURFACE (MATCH EXIST ROAD)
*11	15101.39	18229.78	---	PI FIRE WATER LINE (SUS BLDG TO TOWER)
12	14926.76	18102.33	4692.00'	PI ASPHALT SURFACE
13	14950.00	18105.00	---	COR. COOLING TOWER BASIN (FACE OF WALL)
14	14934.95	18082.54	4691.50'	PI PAD (GRAVEL SURFACE)
15	15017.90	18116.90	4691.00'	PI PAD (GRAVEL SURFACE)
16	15025.59	18110.23	---	PI PAD (GRAVEL SURFACE)
17	15043.27	18067.55	4684.00'	PI PAD (GRAVEL SURFACE MATCH EXIST ASPHALT)
18	15077.55	18077.13	4684.00'	PI PAD (GRAVEL SURFACE MATCH EXIST ASPHALT)
19	15054.75	18132.17	4690.00'	PI PAD (GRAVEL SURFACE)
20	15280.95	18225.86	4691.00'	PI PAD (GRAVEL SURFACE)
21	15359.10	18037.18	4684.00'	PI PAD (GRAVEL SURFACE)
22	15391.36	18051.62	4684.00'	PI PAD (GRAVEL SURFACE)
23	15317.07	18230.97	4691.00'	PI PAD (GRAVEL SURFACE)
24	15409.30	17980.45	---	PI FLUME #1
25	15297.99	18249.16	---	PI FLUME #1 (FACE OF BASIN WALL)
26	15079.62	18007.67	---	PI FLUME #2
27	15026.22	18136.58	---	PI FLUME #2 (FACE OF BASIN WALL)
28	15056.00	18313.96	---	COR NEW SUS BLDG
29	15087.80	18327.13	---	COR NEW SUS BLDG
30	15090.11	18334.63	---	COR TRANSFORMER PAD
31	15104.42	18340.56	---	COR TRANSFORMER PAD
32	15065.21	18322.36	---	PI FIRE WATER SUPPLY LINE (SUS BLDG)
45	15318.90	18384.20	---	LIGHT POLE
46	15130.96	18421.16	---	LIGHT POLE
47	14989.45	18362.55	---	LIGHT POLE
48	14891.56	18239.73	---	LIGHT POLE
*49	15128.03	18240.81	---	PI FIRE WATER LINE (SUS BLDG TO TOWER)

NOTE FOR FIRE WATER SUPPLY LINE COORDINATES NOT SHOWN SEE DWG D-01239-CV-005

* FIRE PIPE RISER TO EXTEND ABOVE THE TOP OF A CONCRETE PAD SEE DETAIL 1

LEGEND

- 6 DENOTES COORDINATE POINT SHOWN IN TABLE
- 92.0 DENOTES FINISH GRADE SPOT ELEVATION
- ASPHALT DENOTES ASPHALT PAVING 4" THICK
- 10" THICK COMPACTED ROAD BASE DENOTES 10" THICK COMPACTED ROAD BASE
- NEW HIGH MAST LIGHT POLE FOR FDN DETAILS SEE BLACK & VEATCH DWG 9255-9STU-S3370 EXCEPT THAT MIN. EMBEDMENT TO BE 6'-0" BELOW GRADE (4 REQ'D).
- 3 DENOTES SURFACE DITCH (1'-0" DEEP MIN) & DIRECTION OF FLOW FOR TYPICAL SECTION SEE DWG D-01239-CV-004

NOTES:

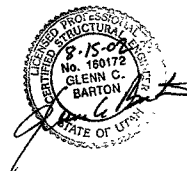
- ALL EARTHWORK, GRADING AND PAVING TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE GEOTECHNICAL REPORT.
- FOR GENERAL NOTES AND PROJECT SPECIFICATION LIST SEE DWG D-01239-C-005.
- CONTOURS SHOWN ARE EXISTING CONTOURS.
- ELEVATIONS SHOWN ARE FINISH GRADE UNLESS OTHERWISE NOTED
- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES.
- FOR FIRE PROTECTION SEE DWG D-01239-CV-005.
- PROVIDE 1" BLEED VALVE AND VALVE BOX WITH A "FRENCH DRAIN" (BELOW GRADE) FOR EACH 8" FIRE LINE.

**APPROVED
FOR CONSTRUCTION**
8-16-02

LEGEND (EXISTING UTILITIES)

- DB DIRECT BURIED COMMUNICATIONS CABLE & DESCRIPTION
- CD DIRECT BURIED LIGHTING CABLE DUCT (4' MIN DEPTH)
- CPC-05 CONSTRUCTION POWER CENTER
- WSA SURFACE WATER SUPPLY
- STG SITE FIRE PROTECTION

REVISIONS						REFERENCE DRAWINGS		ISSUE RECORD					ENGR RECORD			CURRENT DRAWING		
NO	DESCRIPTION	DATE	BY	CHK	APP	DRAWING NO	TITLE	DATE	ISS	REV	TO	FOR	BY	DATE	STATUS	BY	DATE	
1	GENERAL REVISION	5-28-02	GLT	DS	GB	D-01239-CV-002	PIPE PROFILES & DETAILS	5-15-02	1	0	CLIENT	CONSTRUCTION	GLT	5-2-02	PRELIMINARY OR PLANNING			
2	ADD SURVEY CONTROL POINTS	6-7-02	GLT	DRS	GB	D-01239-CV-004	SITE GRADING SECTIONS AND DETAILS	6-4-02	2	1	CLIENT	FOR BID			APPROVED FOR FINAL DESIGN			
3	COORD TABLE, FIRE LINES & DETAIL 1					D-01239-C-001	COOLING TOWER BASIN CONC. PLAN SHT 1	8-16-02	3	3	CLIENT	CONSTRUCTION			IN FINAL DESIGN			
4	LIGHT POLE FDN NOTE	8-14-02	GLT	TE		D-01239-C-002	COOLING TOWER BASIN CONC. PLAN SHT 2								APPROVED FOR QUOTE/PURCH			
5						D-01239-E-001	DUCT BANK SITE PLAN								APPROVED FOR CONSTRUCTION	TD	5-14-02	
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Centry
CONSTRUCTORS & ENGINEERS

Salt Lake City, Utah

TITLE

INTERMOUNTAIN POWER
HELPER COOLING TOWER
SITE PAVING AND GRADING PLAN

FOR INTERMOUNTAIN POWER

SCALE 1"=50'

JOB NO E01239

DRAWING NO

D-01239-CV-003

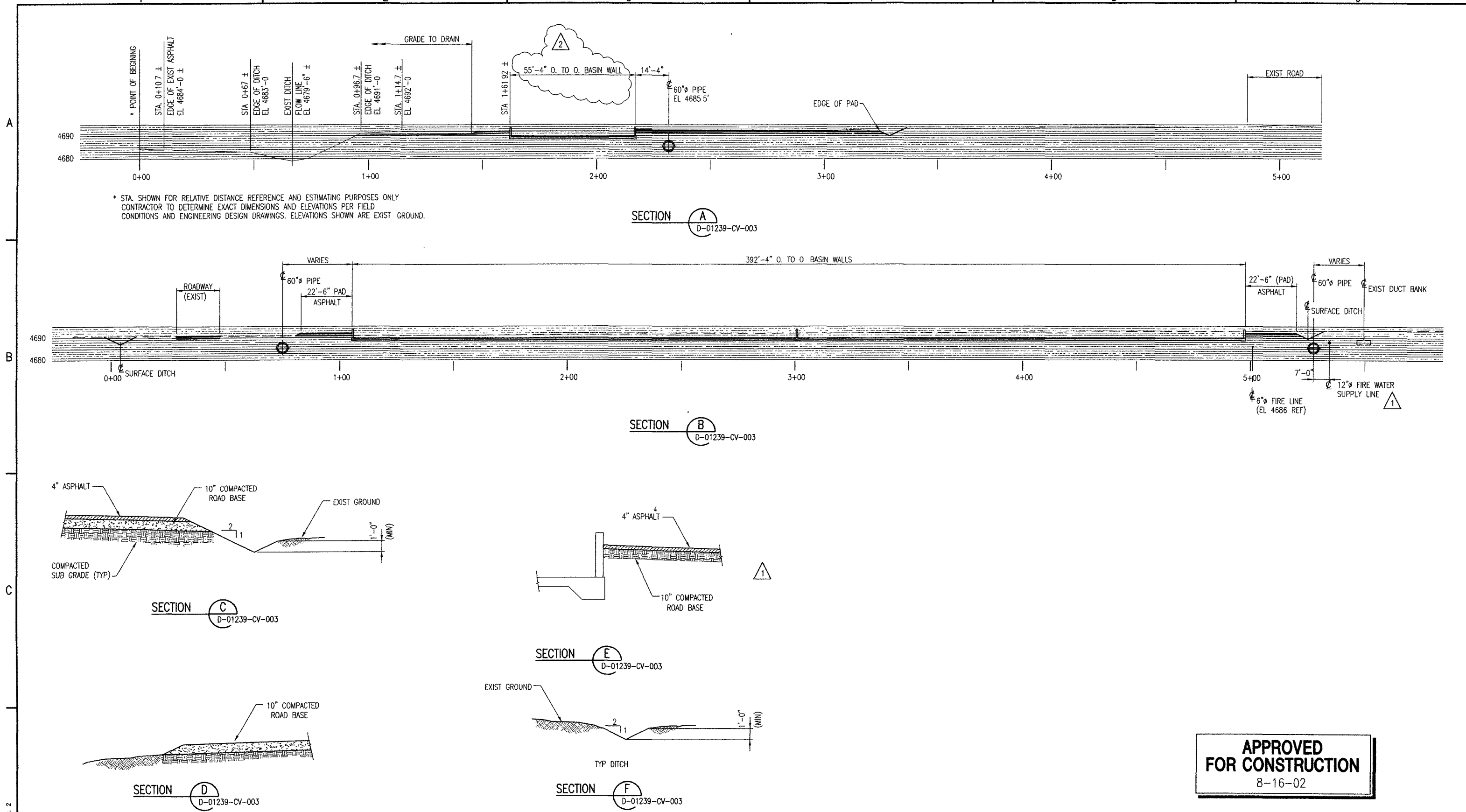
DELTA, UTAH

REV

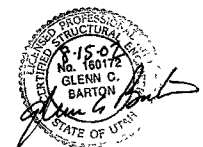
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APPROVED
FOR CONSTRUCTION
8-16-02

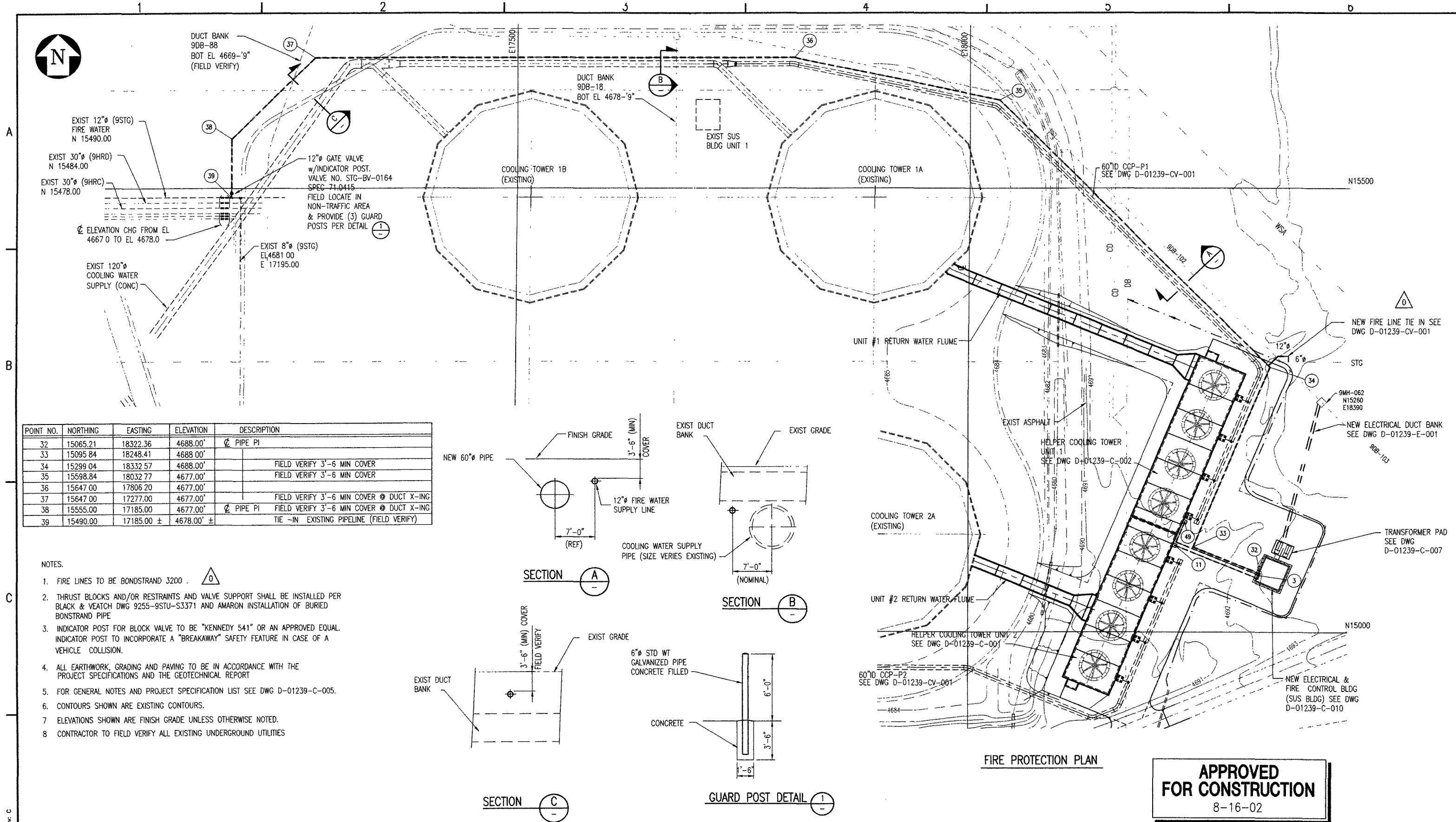


REVISIONS						REFERENCE DRAWINGS		ISSUE RECORD				ENGR RECORD		CURRENT DRAWING	
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1	REVISE SECTIONS E & B	5-28-02	GLT	DS	GB	D-01239-CV-002	PIPE PROFILES & DETAILS	5-15-02	1	0	CLIENT	CONSTRUCTION	GLT	5-8-02	PRELIMINARY OR PLANNING
2	REVISE CALLOUT	6-7-02	GLT	DRS	GB	D-01239-CV-003	SITE GRADING AND PAVING PLAN	6-4-02	2	1	CLIENT	FOR BID			APPROVED FOR FINAL DESIGN
3						D-01239-C-001	COOLING TOWER BASIN CONC. PLAN SHT 1	8-16-02	3	2	CLIENT	CONSTRUCTION			IN FINAL DESIGN
4						D-01239-C-002	COOLING TOWER BASIN CONC. PLAN SHT 2								APPROVED FOR QUOTE/PURCH
5													DRS	5-14-02	APPROVED FOR CONSTRUCTION
6													GB	5-14-02	APPROVED FOR CONSTRUCTION
7													GB	5-14-02	APPROVED FOR CONSTRUCTION
8															APPROVED FOR CONSTRUCTION
9															APPROVED FOR CONSTRUCTION
10															APPROVED FOR CONSTRUCTION

CEntry CONSTRUCTORS & ENGINEERS		Salt Lake City, Utah	
TITLE INTERMOUNTAIN POWER HELPER COOLING TOWER SITE GRADING SECTIONS AND DETAILS			
FOR INTERMOUNTAIN POWER		DELTA, UTAH	
SCALE 1"=50'	JOB NO E01239	DRAWING NO D-01239-CV-004	REV '2

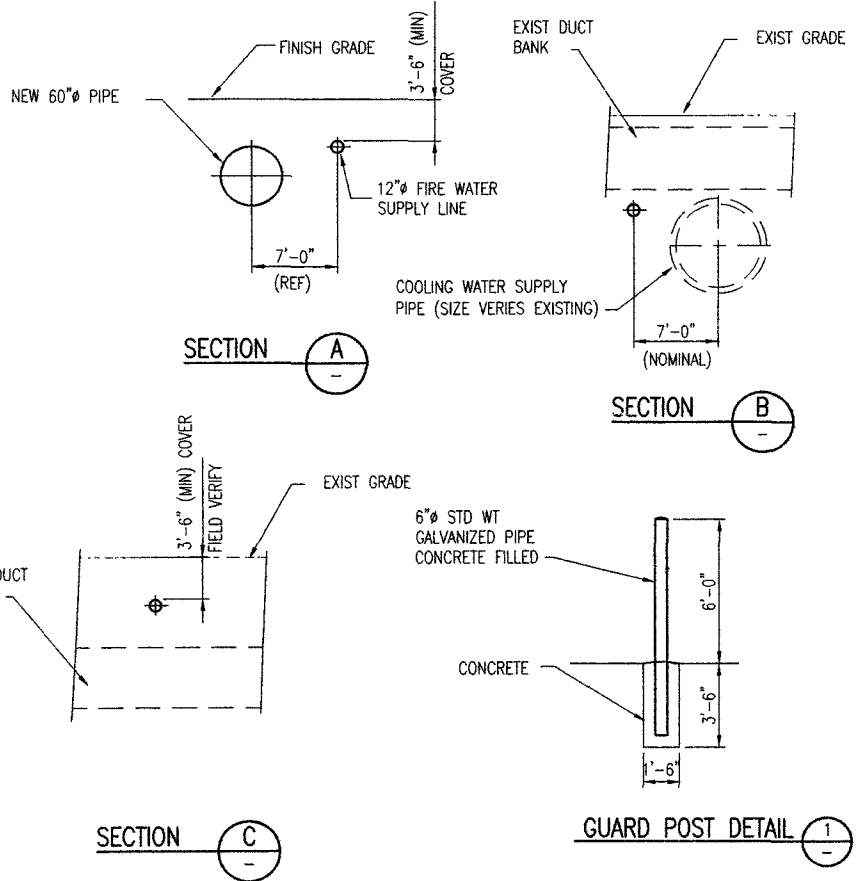
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Plotter: C



POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
32	15065.21	18322.36	4688.00'	PIPE PI
33	15095.84	18248.41	4688.00'	
34	15299.04	18332.57	4688.00'	FIELD VERIFY 3'-6 MIN COVER
35	15598.84	18032.77	4677.00'	FIELD VERIFY 3'-6 MIN COVER
36	15647.00	17806.20	4677.00'	
37	15647.00	17277.00	4677.00'	FIELD VERIFY 3'-6 MIN COVER @ DUCT X-ING
38	15555.00	17185.00	4677.00'	PIPE PI FIELD VERIFY 3'-6 MIN COVER @ DUCT X-ING
39	15490.00	17185.00 ±	4678.00' ±	TIE -IN EXISTING PIPELINE (FIELD VERIFY)

- NOTES:
- FIRE LINES TO BE BONDSTRAND 3200.
 - THRUST BLOCKS AND/OR RESTRAINTS AND VALVE SUPPORT SHALL BE INSTALLED PER BLACK & VEATCH DWG 9255-9STU-S3371 AND AMARON INSTALLATION OF BURIED BONDSTRAND PIPE.
 - INDICATOR POST FOR BLOCK VALVE TO BE "KENNEDY 541" OR AN APPROVED EQUAL. INDICATOR POST TO INCORPORATE A "BREAKAWAY" SAFETY FEATURE IN CASE OF A VEHICLE COLLISION.
 - ALL EARTHWORK, GRADING AND PAVING TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE GEOTECHNICAL REPORT.
 - FOR GENERAL NOTES AND PROJECT SPECIFICATION LIST SEE DWG D-01239-C-005.
 - CONTOURS SHOWN ARE EXISTING CONTOURS.
 - ELEVATIONS SHOWN ARE FINISH GRADE UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES.



**APPROVED
FOR CONSTRUCTION**
8-16-02

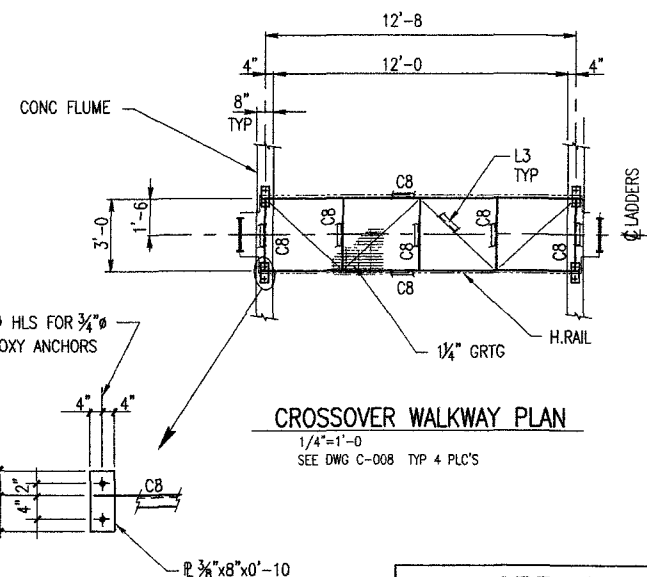
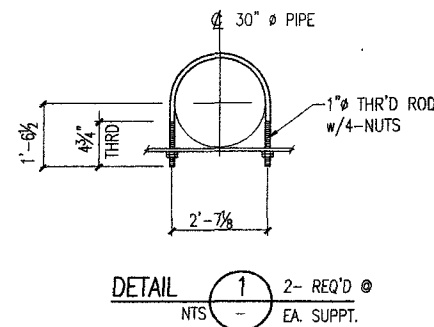
REVISIONS						REFERENCE DRAWINGS		ISSUE RECORD				ENGR RECORD		CURRENT DRAWING	
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1	REVISE PIPE TYPE & TOWER SUPPLY LINES	-	-	-	-	D-01239-CV-002	PIPE PROFILES & DETAILS	6-4-02	1	A	CLIENT	FOR BID	GLT	5-29-02	PRELIMINARY OR PLANNING
2	APPROVE FOR CONSTRUCTION	8-16-02	GLT	TE		D-01239-CV-004	SITE GRADING SECTIONS AND DETAILS	8-16-02	2	0	CLIENT	CONSTRUCTION			APPROVED FOR FINAL DESIGN
3						D-01239-C-001	COOLING TOWER BASIN CONC. PLAN SHT 1								IN FINAL DESIGN
4						D-01239-CV-001	SITE PLAN								APPROVED FOR QUOTE/PURCH
5						D-01239-CV-003	SITE PAVING AND GRADING PLAN								APPROVED FOR CONSTRUCTION
6						9255-9STU-S3371	THRUST BLOCKS (BLACK & VEATCH)								



Centry
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Salt Lake City, Utah


**INTERMOUNTAIN POWER
HELPER COOLING TOWER
FIRE PROTECTION PLAN AND DETAILS**

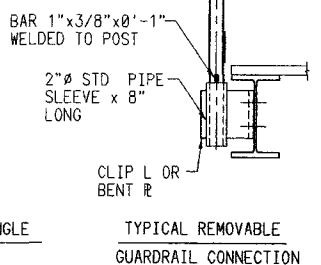
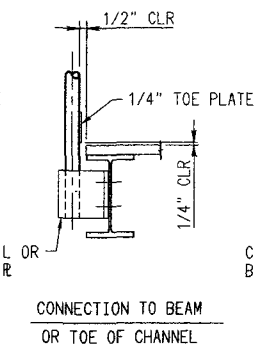
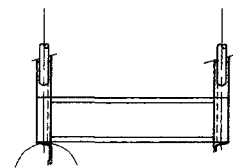
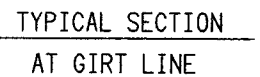
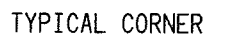
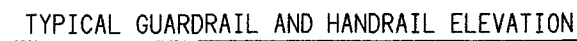
FOR INTERMOUNTAIN POWER
SCALE 1"=50'
JOB NO E01239
DRAWING NO D-01239-CV-005
DELTA, UTAH
REV 10



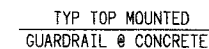
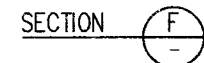
- NOTES:
1. FOR GENERAL NOTES SEE DWG D-01239-C-005.
 2. BUTTERFLY VALVE TO BE "NIBCO" BFV LD1010-5 DOUBLE FLANGE STYLE, CAST BODY, EDPM SEAT, NICKEL PLATED DISC WITH MANUAL GEAR OPERATOR.
OR AN APPROVED EQUAL VALVE WEIGHT 1100 lbs.
 3. 30" PIPE RISER SHALL BE 30" O.D. PIPE W/0.25" WALL THICKNESS CARBON STEEL MORTAR LINED W/3/4" THICK MORTAR. SPOOL #1 SHALL HAVE ONE END W/ ASTM B16.1 125# FF FLANGE. SPOOL #2 SHALL HAVE BOTH ENDS WITH A ASTM B16.1-125# FF FLANGE. LOCATE JOINTS TO MAXIMIZE LARGEST SHIPABLE SECTIONS. PIPE SHALL MEET THE REQUIREMENTS AWWA C200.
 4. 30" EXPANSION JOINT TO BE GENERAL RUBBER'S STYLE 1015 MAXI-JOINT WITH ANSI 125# FF FLANGE AND NEOPRENE COVER.
 5. FOR LADDER STANDARD DETAILS, SEE DRAWING D-01239-S-002
 6. FOR HANDRAIL STANDARD DETAILS, SEE DRAWING D-01239-S-003.
 7. CCP DENOTES CONCRETE CYLINDER PIPE, AWWA C303.
- 2

REVISIONS						REFERENCE DRAWINGS		ISSUE RECORD					ENGR RECORD			CURRENT STATUS		DRAWING	
NO	DESCRIPTION	DATE	BY	CHK	APP	DRAWING NO	TITLE	DATE	ISS	REV	TO	FOR		BY	DATE		BY	DATE	
1	RELEASE HOLD, REV DET. ADD WALKWAY	05-14-02	TE	DRS	GB	D-01239-C-001	CONCRETE PLAN - SHT 1 OF 2	04-22-02	1	0	CLIENT	PIPE BID	DRAWN	GLT	3-14-02	PRELIMINARY			
2	CHG'S MADE TO DWGS BY CLIENT TO REV 0	5-29-02	GLT	DRS	GB	D-01239-C-002	CONCRETE PLAN - SHT 2 OF 2	05-15-02	2	1	CLIENT	CONSTRUCTION	ELEC. CHECK			APPROVED FOR			
						D-01239-C-005	GENERAL NOTES	6-04-02	3	2	CLIENT	FOR BID	INST. CHECK			FINAL DESIGN			
								8-16-02	4	2	CLIENT	CONSTRUCTION	MECH. CHECK			IN FINAL			
													PROCESS CHECK			DESIGN			
													STRUCT. CHECK	DRS	05-14-02	APPROVED FOR			
													LEAD ENG / DES			QUOTE/PURCH			
													DISCIPLINE MOR			APPROVED FOR			
													CONST. REVIEW			CONSTRUCTION	✓	8/15/02	
													PROJECT ENG.						
													CLIENT APPROVAL						

		CEntry CONSTRUCTORS & ENGINEERS		Salt Lake City, Utah	
TITLE		INTERMOUNTAIN POWER HELPER COOLING TOWER BASIN STEEL PLANS AND DETAILS			
FOR INTERMOUNTAIN POWER		DELTA, UTAH			
SCALE $\frac{3}{16}'' = 1'-0''$	JOB NO E01239	DRAWING NO D-01239-S-001	REV 2		2



TYPICAL GUARDRAIL POST CONNECTIONS



**APPROVED
FOR CONSTRUCTION**
8-18-02

- 1 ALL TOP AND MIDRAILS TO BE 1 1/4" DIA STD PIPE.
- 2 ALL POSTS TO BE 1 1/2" DIA. STD. PIPE
- 3 ALL HANDRAIL SURFACES SHALL BE GROUND SMOOTH.
4. FOR STRINGER SIZE, SEE PLAN DRAWINGS
- 5 FOR COATING REQUIREMENTS REFER TO PROJECT SPECIFICATIONS.
6. WORK THIS DRAWING WITH GENERAL STEEL NOTES,
7. ALL HANDRAIL DIMS. ARE TO CENTER LINE, EXCEPT AT CLEARANCE DIMS

8-15-07
No. 160172
GILSON C.
SANTON
Glen & Burt

Salt Lake City, Utah

TITLE	INTERMOUNTAIN POWER HELPER COOLING TOWER STAIRS, HANDRAIL AND GUARDRAIL
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FOR INTERMOUNTAIN POWER PROJECT			DELTA, UTAH
SCALE	JOB NO	DRAWING NO	REV
	E01239	D-01239-S-003	0

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